



Levoxin®

Levofloxacin Infusion

Presentation

Levoxin® IV Infusion: Each 100 ml solution contains Levofloxacin Hemihydrate USP equivalent to Levofloxacin 500 mg.

Description

Levofloxacin is a synthetic, broad-spectrum, third generation fluoroquinolone derivative antibacterial agent for oral administration. Chemically levofloxacin is a chiral fluorinated carboxyquinolone.

Indications and Uses

Levofloxacin is indicated for the treatment of mild, moderate and severe infections caused by susceptible strains of the designated micro-organisms in the condition listed below:

- Acute maxillary sinusitis due to *Streptococcus pneumoniae*, *Haemophilus influenzae*, or *Moraxella catarrhalis*.
- Acute bacterial exacerbation of chronic bronchitis due to *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, or *Moraxella catarrhalis*.
- Community-acquired pneumonia due to *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Klebsiella pneumoniae*, *Moraxella catarrhalis*, *Chlamydia pneumoniae*, *Legionella pneumophila*, or *Mycoplasma pneumoniae*.
- Uncomplicated & complicated urinary tract infections due to *Escherichia coli*, *Klebsiella pneumoniae*, or *Staphylococcus saprophyticus*.
- Acute pyelonephritis caused by *Escherichia coli*.
- Uncomplicated & complicated skin and soft tissue infections including abscesses, cellulitis, furuncles, impetigo, pyoderma, wound infections, due to *Staphylococcus aureus*, *Streptococcus pyogenes*, *Proteus mirabilis* or *Enterococcus faecalis*.
- Enteric infections caused by *Enterobacter sp.*, *Escherichia coli*, *Campylobacter sp.*, *Vibrio cholerae*, *Shigella sp.*, *Salmonella sp.*

Dosage and Administration

The usual dose of Levoxin Tablets is 250 mg or 500 mg or 750 mg administered orally every 24 hours. Levoxin tablets can be administered without regard to food. Levofloxacin oral solution should be taken 1 hour before, or 2 hours after eating.

Levoxin injection should only be administered by intravenous infusion. It is not for intramuscular, intrathecal, intraperitoneal, or subcutaneous administration. The usual dose of Levoxin injection is 250 mg or 500 mg administered by slow infusion over 60 minutes every 24 hours or 750 mg administered by slow infusion over 90 minutes every 24 hours. Since the Levoxin injections are for single-use only, any unused portion should be discarded. Additives or other medications should not be added to Levoxin Injection or infused simultaneously through the same intravenous line.

Adults:

- Acute sinusitis: 500 mg once daily for 10-14 days, or 750 mg once daily for 5 days
- Exacerbation of chronic bronchitis: 500 mg once daily for 7 days, or 750 mg once daily for 3 days (Uncomplicated), 750 mg once daily for 5 days (Complicated)
- Community-acquired pneumonia: 500 mg once daily for 7-14 days, or 750 mg once daily for 5 days
- Uncomplicated urinary-tract infections: 250 mg once daily for 3 days
- Complicated urinary-tract infections and acute pyelonephritis: 250 mg once daily for 7-10 days
- Uncomplicated skin and soft-tissue infections: 500 mg once daily for 7-10 days.
- Complicated skin and soft-tissue infections: 750 mg once daily for 7-14 days.
- Enteric fever: 500 mg once daily for 7-14 days.
- Diarrhea, cholera, shigellosis & enteritis:
 - Mild to moderate case: 500 mg (single dose)
 - Moderate to severe case: 500 mg once daily for 3 days

Children:

Children 6 months to <5 years: 10 mg/kg every 12 hours. Children >5 years: 10 mg/kg every 24 hours
In each case, sequential therapy (intravenous to oral) may be instituted at the discretion of the physician.

Contraindications

Levofloxacin is contraindicated in patients with a history of hypersensitivity to levofloxacin, quinolone antimicrobial agents, or any other components of this product.

Precautions

The following measures should be taken during administration of Levofloxacin:

- Levofloxacin Injection should only be administered by slow intravenous infusion over a period of 60 or 90 minutes depending on the dosage.
- While administering Levofloxacin, adequate amount of water should be taken to avoid concentrated form of urine.
- Dose adjustment should be exercised during Levofloxacin administration in presence of renal insufficiency.

Side-effects

Levofloxacin is generally well tolerated. However, a few side-effects can usually be seen. Side-effects include: nausea, vomiting, diarrhea, abdominal pain, flatulence and rare occurrence of phototoxicity (0.1%). Side-effects that may be seen very rarely include tremors, depression, anxiety, confusion etc.

Use in pregnancy & lactation

Levofloxacin is not recommended for use during pregnancy or nursing, as the effects on the unborn child or nursing infant are unknown.

Drug interactions

No quinolone should be co-administered with any solution containing multivalent cations, e.g., magnesium, through the same intravenous line. Antacids, Iron and Adsorbents reduce absorption of Levofloxacin. NSAID may increase the risk of CNS stimulation. Warfarin may increase the risk of bleeding.

Overdosage

Levofloxacin exhibits a low potential for acute toxicity. However, in the events of an acute overdosage, the stomach should be emptied. The patients should be kept under observation and appropriate hydration should be maintained.

Instructions for the Use of Levoxin Infusion

1. Check the bottle for minute for leaks. If leaks are found, or if the seal is not intact, discard the solution.
2. Do not use if the solution is cloudy or a precipitate is present.
3. Do not use bottles in series connections.
4. Remove cover from the cap of the bottle.
5. Insert piercing pin of administration set into port with a twisting motion until the pin is firmly seated.
6. Suspend container from hanger.
7. Squeeze and release drip chamber to establish proper fluid level in chamber during infusion of Levoxin Injection.
8. Open flow control clamp to expel air from set. Close clamp.
9. Regulate rate of administration with flow control clamp.

Commercial Pack

Levoxin® IV Infusion: Each box contains 1 polyethylene bottle of 100 ml solution for injection.

Manufactured by
 **Incepta Pharmaceuticals Ltd**
Dhamrai Unit, Dhaka, Bangladesh
® Registered Trademark

LEV
V.N. 01